

In Chung

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

4,863
citations

29
h-index

69
g-index

88
ext. papers

5,589
ext. citations

11.3
avg, IF

5.77
L-index

#	Paper	IF	Citations
67	All-solid-state dye-sensitized solar cells with high efficiency. <i>Nature</i> , 2012 , 485, 486-9	50.4	1392
66	CsSnI ₃ : Semiconductor or metal? High electrical conductivity and strong near-infrared photoluminescence from a single material. High hole mobility and phase-transitions. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8579-87	16.4	675
65	Metal Chalcogenides: A Rich Source of Nonlinear Optical Materials. <i>Chemistry of Materials</i> , 2014 , 26, 849-869	16.4	463
64	Chalcogenide chemistry in ionic liquids: nonlinear optical wave-mixing properties of the double-cubane compound [Sb ₇ S ₈ Br ₂](AlCl ₄) ₃ . <i>Journal of the American Chemical Society</i> , 2009 , 131, 9896-9907	16.4	221
63	Surface Oxide Removal for Polycrystalline SnSe Reveals Near-Single-Crystal Thermoelectric Performance. <i>Joule</i> , 2019 , 3, 719-731	27.8	118
62	Synthesis in ionic liquids: [Bi ₂ Te ₂ Br](AlCl ₄), a direct gap semiconductor with a cationic framework. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14760-2	16.4	110
61	Helical polymer 1/infinity[P ₂ Se ₆ (2-)]: strong second harmonic generation response and phase-change properties of its K and Rb salts. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14996-5006	16.4	103
60	Enhanced thermoelectric properties of p-type nanostructured PbTe _{1-x} Te _x (M = Cd, Hg) materials. <i>Energy and Environmental Science</i> , 2013 , 6, 1529	35.4	101
59	New Metal Chalcogenides Ba ₄ CuGa ₅ Q ₁₂ (Q = S, Se) Displaying Strong Infrared Nonlinear Optical Response. <i>Chemistry of Materials</i> , 2013 , 25, 2427-2433	9.6	97
58	A Polar and Chiral Indium Telluride Featuring Supertetrahedral T ₂ Clusters and Nonlinear Optical Second Harmonic Generation. <i>Chemistry of Materials</i> , 2009 , 21, 12-14	9.6	96
57	Defect Engineering for High-Performance n-Type PbSe Thermoelectrics. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9282-9290	16.4	88
56	Flexible polar nanowires of Cs ₅ BiP ₄ Se ₁₂ from weak interactions between coordination complexes: strong nonlinear optical second harmonic generation. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2647-56	16.4	88
55	Strongly nonlinear optical glass fibers from noncentrosymmetric phase-change chalcogenide materials. <i>Journal of the American Chemical Society</i> , 2010 , 132, 384-9	16.4	81
54	Enhancing p-Type Thermoelectric Performances of Polycrystalline SnSe via Tuning Phase Transition Temperature. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10887-10896	16.4	79
53	Polycrystalline SnSe with a thermoelectric figure of merit greater than the single crystal. <i>Nature Materials</i> , 2021 , 20, 1378-1384	27	79
52	Macromolecular Nanoplatelet of Aurivillius-type Layered Perovskite Oxide, Bi ₄ Ti ₃ O ₁₂ . <i>Chemistry of Materials</i> , 2001 , 13, 2759-2761	9.6	77
51	High-Performance n-Type PbSe-CuSe Thermoelectrics through Conduction Band Engineering and Phonon Softening. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15535-15545	16.4	64

50	Extraordinary Off-Stoichiometric Bismuth Telluride for Enhanced n-Type Thermoelectric Power Factor. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14458-14468	16.4	63
49	Molecular germanium selenophosphate salts: phase-change properties and strong second harmonic generation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20733-44	16.4	61
48	Na ₂ Ge ₂ Se ₅ : A highly nonlinear optical material. <i>Journal of Solid State Chemistry</i> , 2012 , 195, 161-165	3.3	51
47	Air-Stable Direct Bandgap Perovskite Semiconductors: All-Inorganic Tin-Based Heteroleptic Halides A _x SnCl ₃ Y ₃ (A = Cs, Rb). <i>Chemistry of Materials</i> , 2018 , 30, 4847-4856	9.6	45
46	First-principles prediction of an enhanced optical second-harmonic susceptibility of low-dimensional alkali-metal chalcogenides. <i>Physical Review B</i> , 2009 , 79,	3.3	45
45	APSe ₆ (A = K, Rb, and Cs): Polymeric selenophosphates with reversible phase-change properties. <i>Inorganic Chemistry</i> , 2004 , 43, 2762-4	5.1	45
44	Crystal Growth and Characterization of the X-ray and Ray Detector Material Cs ₂ Hg ₆ S ₇ . <i>Crystal Growth and Design</i> , 2012 , 12, 3250-3256	3.5	40
43	Strongly nonlinear optical chalcogenide thin films of APSe ₆ (A=K, Rb) from spin-coating. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10867-70	16.4	39
42	High-Power-Density Skutterudite-Based Thermoelectric Modules with Ultralow Contact Resistivity Using FeNi Metallization Layers. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1603-1611	6.1	33
41	Low valent phosphorus in the molecular anions [P ₅ Se ₁₂] ⁵⁻ and beta-[P ₆ Se ₁₂] ⁴⁻ : phase change behavior and near infrared second harmonic generation. <i>Chemical Communications</i> , 2007 , 4998-5000	5.8	32
40	Unprecedentedly high indoor performance (efficiency > 34 %) of perovskite photovoltaics with controlled bromine doping. <i>Nano Energy</i> , 2020 , 75, 104984	17.1	30
39	Semiconducting [(Bi ₄ Te ₄ Br ₂)(Al ₂ Cl _{6-x} Br _x)]Cl ₂ and [Bi ₂ Se ₂ Br](AlCl ₄): cationic chalcogenide frameworks from Lewis acidic ionic liquids. <i>Inorganic Chemistry</i> , 2013 , 52, 5657-9	5.1	29
38	High Thermoelectric Performance in n-Type Polycrystalline SnSe via Dual Incorporation of Cl and PbSe and Dense Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21645-21654	9.5	27
37	Cu Intercalation and Br Doping to Thermoelectric SnSe ₂ Lead to Ultrahigh Electron Mobility and Temperature-Independent Power Factor. <i>Advanced Functional Materials</i> , 2020 , 30, 1908405	15.6	27
36	Exceptionally High Average Power Factor and Thermoelectric Figure of Merit in n-type PbSe by the Dual Incorporation of Cu and Te. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15172-15186	16.4	26
35	[P ₆ Se ₁₂] ⁴⁻ : a phosphorus-rich selenophosphate with low-valent P centers. <i>Inorganic Chemistry</i> , 2006 , 45, 2785-7	5.1	22
34	Towards efficient and stable perovskite solar cells employing non-hygroscopic F4-TCNQ doped TFB as the hole-transporting material. <i>Nanoscale</i> , 2019 , 11, 19586-19594	7.7	22
33	ZnTe Alloying Effect on Enhanced Thermoelectric Properties of p-Type PbTe. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3766-3773	9.5	21

32	Ultrahigh Power Factor and Electron Mobility in n-Type BiTe-%Cu Stabilized under Excess Te Condition. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30999-31008	9.5	21
31	High-Performance Quantum Dot Thin-Film Transistors with Environmentally Benign Surface Functionalization and Robust Defect Passivation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3739-3749	9.5	20
30	K ₄ GeP ₄ Se ₁₂ : a case for phase-change nonlinear optical chalcogenide. <i>Optics Letters</i> , 2013 , 38, 1316-8	3	20
29	Nanoscale defect structures advancing high performance n-type PbSe thermoelectrics. <i>Coordination Chemistry Reviews</i> , 2020 , 421, 213437	23.2	19
28	Rb ₄ Sn ₅ P ₄ Se ₂₀ : a semimetallic selenophosphate. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8834-8	16.4	19
27	Neutron Diffraction and X-ray Absorption Spectroscopic Analyses for Lithiated Aurivillius-Type Layered Perovskite Oxide, Li ₂ Bi ₄ Ti ₃ O ₁₂ . <i>Journal of Physical Chemistry B</i> , 2001 , 105, 7908-7912	3.4	17
26	The tellurophosphate K(4)P(8)Te(4): phase-change properties, exfoliation, photoluminescence in solution and nanospheres. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16303-12	16.4	15
25	Ag/Ni Metallization Bilayer: A Functional Layer for Highly Efficient Polycrystalline SnSe Thermoelectric Modules. <i>Journal of Electronic Materials</i> , 2017 , 46, 848-855	1.9	14
24	Stabilization of Sn ²⁺ in K ₁₀ Sn ₃ (P ₂ Se ₆) ₄ and Cs ₂ SnP ₂ Se ₆ derived from a basic flux. <i>Inorganic Chemistry</i> , 2011 , 50, 412-4	5.1	13
23	Self-emitting blue and red EuOX (X = F, Cl, Br, I) materials: band structure, charge transfer energy, and emission energy. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 1737-1749	3.6	12
22	[P(3)Se(7)](3-): a phosphorus-rich square-ring selenophosphate. <i>Inorganic Chemistry</i> , 2010 , 49, 3092-4	5.1	11
21	Electronic Band Engineering via MI ₃ (M = Sb, Bi) Doping Remarkably Enhances the Air Stability of Perovskite CsSnI ₃ . <i>ACS Applied Energy Materials</i> , 2020 , 3, 10477-10484	6.1	9
20	Unusual n-type thermoelectric properties of Bi ₂ Te ₃ doped with divalent alkali earth metals. <i>Journal of Solid State Chemistry</i> , 2019 , 269, 396-400	3.3	9
19	Cs ₄ P ₂ Se ₁₀ : A new compound discovered with the application of solid-state and high temperature NMR. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 2877-2884	3.3	8
18	Electrical characteristics and detailed interfacial structures of Ag/Ni metallization on polycrystalline thermoelectric SnSe. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 711-718	9.1	8
17	Indene-C ₆₀ Bisadduct Electron-Transporting Material with the High LUMO Level Enhances Open-Circuit Voltage and Efficiency of Tin-Based Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5581-5588	6.1	7
16	Strongly Nonlinear Optical Chalcogenide Thin Films of APSe ₆ (A=K, Rb) from Spin-Coating. <i>Angewandte Chemie</i> , 2011 , 123, 11059-11062	3.6	7
15	Highly Luminous N-Substituted LiMSiON:Eu (M = Ca, Sr, and Ba) for White NUV Light-Emitting Diodes. <i>ACS Omega</i> , 2019 , 4, 8431-8440	3.9	6

14	Study on thermal conductivity and electrical resistivity of Al-Cu alloys obtained by Boltzmann transport equation and first-principles simulation: Semi-empirical approach. <i>Journal of Alloys and Compounds</i> , 2017 , 727, 1237-1242	5.7	5
13	Transformation of Dion-Jacobson-type layered oxyfluorides into new anion-deficient pyrochlore-type oxides, ASrNb ₂ O _{6.5} (A = Li and Na). <i>Journal of Materials Chemistry</i> , 2002 , 12, 1001-1004		5
12	Genetic Manipulation of M13 Bacteriophage for Enhancing the Efficiency of Virus-Inoculated Perovskite Solar Cells with a Certified Efficiency of 22.3%. <i>Advanced Energy Materials</i> , 2021 , 11, 2101221	21.8	5
11	Thermoelectric properties of nano-bulk bismuth telluride prepared with spark plasma sintered nano-plates. <i>Current Applied Physics</i> , 2019 , 19, 97-101	2.6	4
10	A Facile and Effective Ozone Exposure Method for Wettability and Energy-Level Tuning of Hole-Transporting Layers in Lead-Free Tin Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42935-42943	9.5	4
9	Large-Diameter Carbon Nanotube Transparent Conductor Overcoming Performance-Field Tradeoff. <i>Advanced Functional Materials</i> , 2103397	15.6	4
8	Thermoelectric transport properties of Pb doped SnSe alloys (PbxSn _{1-x} Se): DFT-BTE simulations. <i>Journal of Solid State Chemistry</i> , 2019 , 270, 413-418	3.3	3
7	Bulk Metamaterials Exhibiting Chemically Tunable Hyperbolic Responses. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	2
6	Exceptionally low thermal conductivity realized in the chalcopyrite CuFeS ₂ via atomic-level lattice engineering. <i>Nano Energy</i> , 2022 , 94, 106941	17.1	2
5	A highly efficient and transparent luminescent solar concentrator based on a nanosized metal cluster luminophore anchored on polymers. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 4402-4410	7.1	2
4	Rb ₄ Sn ₅ P ₄ Se ₂₀ : A Semimetallic Selenophosphate. <i>Angewandte Chemie</i> , 2011 , 123, 8996-9000	3.6	1
3	First-principles study of electronic transport coefficients of point-defective metallic species: aluminum and its bimetallic alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019 , 27, 035009	2	
2	r-BN: A fine hyperbolic dispersion modulator for bulk metamaterials consisting of heterostructured nanohybrids of h-BN and graphene. <i>Journal of Solid State Chemistry</i> , 2022 , 309, 122937	3.3	
1	Genetic Manipulation of M13 Bacteriophage for Enhancing the Efficiency of Virus-Inoculated Perovskite Solar Cells with a Certified Efficiency of 22.3% (Adv. Energy Mater. 38/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170150	21.8	